

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/09571

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F22B1/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F22B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 944 801 B (SIEMENS AG) 29 September 1999 (1999-09-29) cited in the application the whole document ---	1-8,11
Y	DE 34 41 972 A (BELGORODSKIJ Z ENERGET MASH ;PROISVODSTVENNOE OB PROEKT NAL (SU)) 28 May 1986 (1986-05-28) the whole document ---	1-8,11
Y	EP 0 450 072 A (MIURA KOGYO KK) 9 October 1991 (1991-10-09) column 3, line 29 -column 5, line 56; figures ---	1-3,11
Y	US 5 353 749 A (FUHRMAN JR THEODORE C ET AL) 11 October 1994 (1994-10-11) the whole document ---	1-3,11
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

18 November 2003

Date of mailing of the international search report

04/12/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Zerf, G

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/09571

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 188 916 A (CSATHY DENIS G ET AL) 19 February 1980 (1980-02-19) the whole document ---	1-11
A	US 3 442 324 A (CLAY PAUL EUGENE JR ET AL) 6 May 1969 (1969-05-06) the whole document -----	1-11

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/09571

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0944801	B	29-09-1999	DE 19651678 A1	25-06-1998
			DE 59703022 D1	29-03-2001
			DK 944801 T3	11-06-2001
			EP 0944801 A1	29-09-1999
			JP 2001505645 T	24-04-2001
			US 6189491 B1	20-02-2001
			CN 1239540 A ,B	22-12-1999
			WO 9826213 A1	18-06-1998
			ES 2154914 T3	16-04-2001
			KR 2000057541 A	25-09-2000
DE 3441972	A	28-05-1986	DE 3441972 A1	28-05-1986
EP 0450072	A	09-10-1991	DE 68922403 D1	01-06-1995
			DE 68922403 T2	05-10-1995
			EP 0450072 A1	09-10-1991
			KR 9504497 B1	01-05-1995
			AU 628463 B2	17-09-1992
			AU 4805190 A	10-07-1990
			CA 2006576 A1	22-06-1990
			WO 9007084 A1	28-06-1990
			US 5273001 A	28-12-1993
			US 5199384 A	06-04-1993
US 5353749	A	11-10-1994	NONE	
US 4188916	A	19-02-1980	NONE	
US 3442324	A	06-05-1969	DE 1601939 A1	04-03-1971
			FR 1558043 A	21-02-1969
			GB 1165094 A	24-09-1969